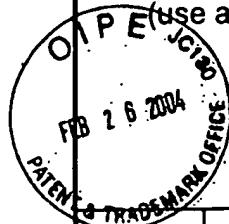


PTO/SB/08A

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

Complete if Known	
Application Number	10/722,288
Filing Date	November 25, 2003
Confirmation Number	
First Named Inventor	Brian Lewis
Group Art Unit	2815
Examiner Name	Jasmine Clark
Attorney Docket No.	CEDA 7000.5

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
nbe	1	3,996,548	A	Chaffin	12-1976
	2	4,670,770	A	Tai	06-1987
	3	4,819,857	A	Mizuishi et al.	04-1989
	4	4,954,870	A	Takemura et al.	09-1990
	5	5,023,697	A	Tsumura	06-1991
	6	5,082,162	A	Kamiyama et al.	01-1992
	7	5,097,387	A	Griffith	03-1992
	8	5,240,172	A	Steinke et al.	08-1993
	9	5,242,658	A	Stevens et al.	09-1993
	10	5,256,370	A	Slattery et al.	10-1993
	11	5,306,950	A	Fujikawa et al.	04-1994
	12	5,471,092	A	Chan et al.	11-1995
	13	5,552,234	A	Kawasumi	09-1996
	14	5,635,764	A	Fujikawa et al.	06-1997
	15	5,755,896	A	Paruchuri et al.	05-1998
nbe	16	5,938,862	A	Yeh et al.	08-1999

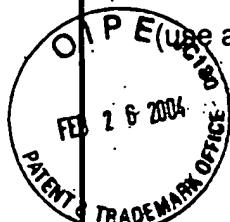
Examiner Signature	Jasmine Clark	Date Considered	12/08/05
--------------------	---------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**


Sheet	2	of	3	Attorney Docket No.	CEDA 7000.5
-------	---	----	---	---------------------	-------------

<i>nbe</i>	17	6,047,876	A	Smith	04-2000
	18	6,059,900	A	Gayle et al.	05-2000
	19	6,176,947	B1	Hwang et al.	01-2001
	20	6,205,264	B1	Jin et al.	03-2001
	21	6,231,693	B1	Lugscheider et al.	05-2001
	22	6,306,516	B1	Jin et al.	10-2001
	23	6,319,617	B1	Jin et al.	11-2001
	24	6,326,685	B1	Jin et al.	12-2001
<i>nbc</i>	25	6,365,973	B1	Koning	04-2002

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
<i>nbe</i>	26	EP	1 153 698	A1		11-2001	
	27	JP	62-212095	A		09-1987	
	28	JP	62-263895			11-1987	
	29	JP	9-172224			06-1997	
	30	JP	11-26335			01-1999	
	31	NL	9200564	A		10-1993	
<i>nbc</i>	32	WO	99/02299			01-1999	

Examiner Signature	<i>Jasmine Clark</i>	Date Considered	<i>12/08/05</i>
--------------------	----------------------	-----------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)



Sheet

3

of

3

Attorney Docket No.

CEDA 7000.5

**Complete if Known**

Application Number	10/722,288
Filing Date	November 25, 2003
Confirmation Number	
First Named Inventor	Brian Lewis
Group Art Unit	2815
Examiner Name	Jasmine Clark

<i>nbc</i>	33	WO	01/34860		05-2001	

**OTHER ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
<i>nbc</i>	34	HAREESH MAVORRI et al, Universal Solders for Direct and Powerful Bonding on Semiconductors,	
<i>nbc</i>		Diamond, and Optical Materials, Applied Physics Letter, May 7, 2001, pp. 2976-2978 vol. 78, No. 19.	
<i>nbc</i>	35	International Search Report, PCT/US02/15870, dated Apr. 10, 2003, 4 pages.	
<i>nbc</i>			

Examiner Signature	<i>Jasmine Clark</i>	Date Considered	<i>12/08/05</i>
--------------------	----------------------	-----------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A

**SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**



Sheet

1

of

1

**Complete if Known**

Application Number	10/722,288
Filing Date	November 25, 2003
Confirmation Number	9116
First Named Inventor	Brian Lewis
Group Art Unit	1728 2815
Examiner Name	Tasmine Cloutier <i>To Be Assigned</i>

Attorney Docket No. CEDA 7000.5

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
<i>jbc</i>	36	5,907,474		Dolbear	05-25-1999

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
<i>jbc</i>	37	JP	05-070252	A2	Mitsubishi Materials Corp.	03/23/1993	

**OTHER ART - NON PATENT LITERATURE DOCUMENTS**

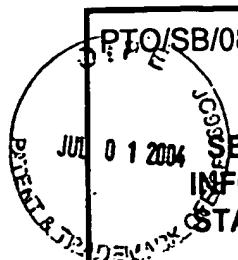
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature	Jasmine Cloutier	Date Considered	12/08/05
--------------------	------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

 <b>SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/722,288
				Filing Date	November 25, 2003
				Confirmation Number	9116
				First Named Inventor	Brian G. Lewis, et al.
				Group Art Unit	12815
				Examiner Name	To Be Assigned <i>Jasmine Clark</i>
Sheet	1	of	1	Attorney Docket No.	CEDA 7000.5

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
nbc	38	6,285,079	B1	Kunikiyo	09-04-2001
nbc	39	6,653,741	B2	Sreeram, et al.	11-25-2003
<b>FOREIGN PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)	
<b>OTHER ART - NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>6</sup>

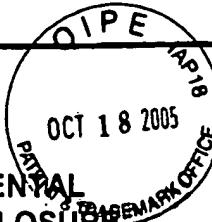
Examiner Signature	<i>Jasmine Clark</i>	Date Considered	12/08/05
--------------------	----------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08A


**THIRD SUPPLEMENTAL  
INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket No.	CEDA 7000.5
-------	---	----	---	---------------------	-------------

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
mb	40	5,066,544		Betrabet, et al.	11-19-1991
	41	5,918,795		Yamaguchi, et al.	07-06-1999
	42	6,319,461	B1	Domi, et al.	11-20-2001
mb	43	2005/0069725	A1	Boaz	03-31-2005

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			

**OTHER ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>

Examiner Signature	Jasmine Clark	Date Considered	12/08/05
--------------------	---------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached or place an "A" here if English language abstract is attached..

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.